

Drug Analysis Laboratory  
IR Spectrophotometer  
Monthly QC

Name & Model # : \_\_\_\_\_

Serial #: \_\_\_\_\_

A. Frequency Check - Polystyrene (Bi-monthly):

2850  $\pm$  6  $\text{cm}^{-1}$

1601  $\pm$  3  $\text{cm}^{-1}$

907  $\pm$  3  $\text{cm}^{-1}$

Date: \_\_\_\_\_

1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. 100% Line (FTIR Only) (Bi-monthly):

\_\_\_\_\_  $\text{cm}^{-1}$

\_\_\_\_\_  $\text{cm}^{-1}$

\_\_\_\_\_  
\_\_\_\_\_

C. Alignment (FTIR Only):

1. Background Profile (Monthly)
2. Interferogram (Quarterly)

D. Photometric Reproducibility (Monthly):

(Scans must be within 2% of reproducibility)

E. Baseline Stability (Quarterly):

(< 5% between 4000  $\text{cm}^{-1}$  and 650  $\text{cm}^{-1}$ )

F. Resolution (Quarterly):

(Presence of a smaller peak on the low frequency side of 1601 peak)

G. Cocaine HCL / Cocaine Base Scans (Quarterly):

Cocaine HCL  
( $\pm$  5  $\text{cm}^{-1}$ )

1736  
1710  
1276  
1111

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1739  
1708  
1276  
1110  
713

QC Review: \_\_\_\_\_

QA Review: \_\_\_\_\_

Drug Analysis Laboratory  
IR Spectrophotometer  
Monthly QC

Month/Year: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_  
2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Cocaine Base**  
( $\pm 5 \text{ cm}^{-1}$ )

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Drug Analysis Laboratory  
QC - IR Spectrophometer

Name & Model # : \_\_\_\_\_

Serial #: \_\_\_\_\_

A. Frequency Check - External Polystyrene (Bi-annually):

2850  $\pm$  2  $\text{cm}^{-1}$

1601  $\pm$  2  $\text{cm}^{-1}$

907  $\pm$  2  $\text{cm}^{-1}$

Date: \_\_\_\_\_

1

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. Frequency Check - Internal Polystyrene (Bi-monthly):

2850  $\pm$  2  $\text{cm}^{-1}$

1601  $\pm$  2  $\text{cm}^{-1}$

907  $\pm$  2  $\text{cm}^{-1}$

Date: \_\_\_\_\_

1

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

C. Cocaine HCL / Cocaine Base Scans (Quarterly):

Cocaine HCL

( $\pm$  2  $\text{cm}^{-1}$ )

1727

1711

1265

1105

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1735

1707

1274

1108

775

Drug Analysis Laboratory  
QC - IR Spectrophometer

Month/Year: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_  
2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_  
2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Cocaine Base  
( $\pm 2 \text{ cm}^{-1}$ )

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Drug Analysis Laboratory  
QC - IR Spectrophometer

QC Review: \_\_\_\_\_

QA Review: \_\_\_\_\_